

19991126.qrp v01_n651.qrl.991126

Date: Fri, 26 Nov 1999 19:03:03 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1651

QRP-L Digest 1651

Topics covered in this issue include:

- 1) [56790] FOX: Final Log for K5LN (23 Nov 99) 2nd try
by K5ln@aol.com
- 2) [56791] Re: %20To%20QRP%20or%20Not%20to%20QRP
by W1XV@cs.com
- 3) [56792]
by "Richard Matthews" <prm@hiwaay.net>
- 4) [56793] To beacon or not, that's the question
by "Walt Amos" <waltamos@surfree.com>
- 5) [56794] Re: Figuring out my new Index Labs QRP+
by "Jim Marciniak" <n1rui@together.net>
- 6) [56795] Re: HB: Screwdriver substitute
by Ray Colbert <af852@rgfn.epcc.edu>
- 7) [56796] Re: HB: Screwdriver substitute
by Robert McConnell <rmcconne@lightlink.com>
- 8) [56797] ZM-2 enclosure
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
- 9) [56798] CINNAMON ALTOIDS!!!!!!!!!!!!!!
by "David Hurley,n2zhy" <n2zhy@amsat.org>
- 10) [56799] WA3WSJ/C6A worked
by "Ron Polityka" <wb3aal@talon.net>
- 11) [56800] Looking for info on vectronics
by "Jesse Hires" <jhires@hotmail.com>
- 12) [56801] High Bands, CQWW and my QSL's
by Monte Stark <ku7y@dri.edu>
- 13) [56802] Ferrite Toroid ID ? To mark or not to mark ?
by patrick m kvitkauskas <pmk@juno.com>
- 14) [56803] Re: HB: Crystal question
by "George T. Baker" <w5yr@swbell.net>
- 15) [56804] CONTEST: QRP This Weekend
by Ken Newman <N2CQ@citnet.com>
- 16) [56805] Warning-30m Post-- Hot DAWGGG!! HC8N and T32B0!!
by aweiss@usd.edu (Ade Weiss W0RSP)
- 17) [56806] Re: Tuned Radials
by aweiss@usd.edu (Ade Weiss W0RSP)
- 18) [56807] WQ4RP 40M 5mW Beacon Results
by Paul Stroud <aa4xx@ipass.net>
- 19) [56808] Re: HB: Screwdriver substitute

- by Michael Neverdosky <mneverdosky@earthlink.net>
- 20) [56809] Re: Measuring Transistor Beta?
by "Nick Kennedy" <nkennedy@cswnet.com>
- 21) [56810] FOX N/T+ Tony KB9TIQ 0000 Sunday UTC
by "Terry Bassett" <mutabut@net66.com>
- 22) [56811] Re: FOX: Final Log for K5LN (23 Nov 99) 2nd try
by Bruce Rattray <rattray@gpfn.sk.ca>
- 23) [56812] vfo working !!!!!
by Timothy Herron <drboom@bright.net>
- 24) [56813] Re: vfo working !!!!!
by PDouglas12@aol.com
- 25) [56814] CLUB:QRP ARCI-Jan.2000 issue deadline
by Jim Stafford <w4qo@amsat.org>
- 26) [56815] Re: HB: Screwdriver substitute
by K2UD@aol.com
- 27) [56816] What kit to build???
by "ME Pendergast" <kt4an@hotmail.com>
- 28) [56817] mW QRPP is only 10dB below 5w QRP!
by Jim Hale <kj5tf@yahoo.com>
- 29) [56818] N7RR Fox -- Monday, November 29
by "Bruce Prior" <n7rr@hotmail.com>
- 30) [56819] Re: PEP reading for WM2?
by Monte Stark <ku7y@dri.edu>
- 31) [56820] hungary falls to qrp
by hamjoel@juno.com
- 32) [56821] wa3wsj/c6a 11-26-99 21.06
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 33) [56822] RE: wa3wsj/c6a 11-26-99 21.06
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 34) [56823] Re: To QRP or Not to QRP
by Jim Hale <kj5tf@yahoo.com>
- 35) [56824] Re: [TowerTalk] Drill Bit Sharpener
by "Jim Marciniak" <n1rui@together.net>
- 36) [56825] More 10M DX
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 37) [56826] Re: More 10M DX
by aa5yx@juno.com
- 38) [56827] Re: PEP reading for WM2?
by "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
- 39) [56828] Re: Figuring out my new Index Labs QRP+
by Ray Colbert <af852@rgfn.epcc.edu>
- 40) [56829] Reply to Kit to build
by "Richard Matthews" <prm@hiwaay.net>
- 41) [56830] paddle wanted
by "Scott Howell" <n3byy@yahoo.com>
- 42) [56831] HB: 2N2/40 Progress Report
by "Arthur G. Silvers" <ags@ieee.org>
- 43) [56832] Re: Good L Antenna Article in 12/99 QST

by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
44) [56833] Re: Crystal question
by "muleskiner" <muleskiner@gateway.net>
45) [56834] FOX N/T+ KB9TIQ
by "Terry Bassett" <mutabut@net66.com>
46) [56835] N/T+ FOX Hunter coming :-)
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
47) [56836] Re: Reply to Kit to build
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
48) [56837] mW DXCC award
by W1XV@cs.com
49) [56838] CQ WW DX CW contest + Fun!
by Jim Hale <kj5tf@yahoo.com>
50) [56839] PW-1 Portable Antenna
by "Bob White" <bobwhite@innercite.com>
51) [56840] ARCI Badge
by Jeff Davis <jeff@n9avg.org>
52) [56841] help:heath hm-9
by James Skalski <jskalski@localnet.com>
53) [56842] FS: QRP++
by "Bob Tellefsen" <n6wg@earthlink.net>
54) [56843] OT: Logging Program
by Jeff Davis <jeff@n9avg.org>
55) [56844] Luddite Night?
by Jeff Davis <jeff@n9avg.org>
56) [56845] Re: Luddite Night?
by "Robert P. Okas" <vintage@best.com>
57) [56846] Re: ARCI Badge
by "J. Ervin Bates" <w8erv@email.msn.com>
58) [56847] Re: HB: Screwdriver substitute
by Pete Burbank <plburbank@kih.net>

Date: Thu, 25 Nov 1999 19:19:28 EST
From: K5ln@aol.com
To: qrp-l@lehigh.edu
Subject: [56790] FOX: Final Log for K5LN (23 Nov 99) 2nd try
Message-ID: <0.bd36a358.256f2c10@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Gang, I not sure what is going on but here is the log without anyone copied.
Lets see if this gets through.

72,
Bill, K5LN

Okay gang, here is the final log for K5LN 23 Nov 99. Thanks to everyone that supported this event. Will look for others in the upcoming Fox hunts.

Happy hunting.

NR	TIME	CALL	HIS RST	MY RST	QTH	NAME	NR/PWR
1	2:00	N0EHW	559	599	MO	TIM	2047
2	2:02	W0CH	559	559	MO	DAVE	618
3	2:03	N0EA	559	559	MO	WAYNE	1058
4	2:05	N1TP	579	579	FL	TOM	1317
5	2:06	AF4PS	579	579	FL	MAC	704
6	2:07	K0PC	559	559	MN	PAT	1964
7	2:09	AA0ZZ	579	579	MN	GRIG	1238
8	2:10	N4ROA	579	559	VA	DAN	970
9	2:12	K1JD	559	559	RI	JOHN	1945
10	2:13	W0JOE	559	559	MO	JOE	1901
11	2:14	AE4Y	559	559	GA	KENT	1844
12	2:15	AA5TA	559	559	TX	LARRY	1245
13	2:16	K0EVZ	559	569	ND	DOC	861
14	2:18	KU4AF	559	559	NC	JOHN	987
15	2:20	WD4MSM	599	599	IN	BARRY	642
16	2:21	NV4V	559	559	KY	PETE	1721
17	2:22	N9MZP	559	559	IL	WALT	1060
18	2:24	AI4CW	559	549	AL	DON	1670
19	2:26	NQ7X	559	559	AZ	FLOYD	343
20	2:27	KU7Y	559	559	NV	RON	17
21	2:29	W4UTI	599	449	AL	KARL	1072
22	2:31	KB9BVN	559	559	IN	BRIAN	1540
23	2:33	KI7MN	559	569	AZ	BOB	271
24	2:34	KF4AR	559	579	NC	RICK	4024
25	2:38	WS4S	339	549	TN	CONARD	993
26	2:41	AF4PP	449	449	GA	CHUCK	1785
27	2:43	AE2T	449	339	NY	AL	1764
28	2:44	WD8KQY	449	449	OH	GARY	446
29	2:46	N5SMQ	559	559	LA	BUTCH	1999
30	2:47	KA4DMK	449	559	FL	JIM	2W
31	2:49	N8VAR	449	559	OH	RON	263
32	2:51	N3YSI	449	449	PA	JIM	1835
33	2:52	K8CV	559	559	MI	WALT	935
34	2:55	AK7Y	449	559	AZ	GREG	
35	2:58	WB8RCR	559	459	MI	JOHN	1446
36	2:59	K1VP	559	559	NH	ED	1960
37	3:01	N0RN	579	559	CO	BOB	1789
38	3:02	K1MG	559	449	GA	MIKE	614
39	3:03	N6XU	559	549	CA	STAN	66
40	3:04	WW7Y	449	559	UT	STEVE	94

41	3:06	WE6W	339	339	CA	ED	1068
42	3:08	N6WG	339	339	CA	BOB	26
43	3:10	VE7CQK	449	559	BC	PAUL	20
44	3:13	NB6M	449	569	CA	WAYNE	11
45	3:16	WA8RXI	449	559	MI	RICK	1368
46	3:17	VE5RC	449	339	SK	BRUCE	886
47	3:19	N3BJ	559	559	VA	ALAN	5W
48	3:21	N1FN	579	559	CO	ET	153
49	3:22	KS4L	559	539	AL	RANDY	468
50	3:24	KI0II	559	549	CO	RON	928
51	3:25	N8IE	339	559	OH	DAN	1404
52	3:26	VE3JC	579	549	ON	JOHN	744
53	3:27	KB9IUA	449	449	IL	KEVIN	384
54	3:28	KF2PH	449	449	NY	NICK	13
55	3:33	AB7MY	339	559	AZ	GARY	571
56	3:34	AJ4Y	339	449	FL	PAUL	1795
57	3:35	AE4IC	339	339	NC	BOB	54
58	3:37	KI0G	339	559	CO	BOB	239
59	3:39	KC1FB	339	339	CT	JIM	29
60	3:41	VE6EWM	339	449	AB	EARL	1076
61	3:43	WV3J	559	339	VA	PAUL	1224
62	3:45	W0RW	559	599	CO	PAUL	1284
63	3:46	N0RC	449	339	CO	ROD	1764
64	3:48	N0DT	449	559	MO	DAN	1004
65	3:49	N2SMH	339	449	NJ	DAVID	74
66	3:53	KA5T	339	559	TX	LARRY	89
67	3:55	NK6A	449	559	CA	DON	1517
68	3:57	N0TU	559	559	CO	STEVE	911

72,
 Bill, K5LN
 Round Rock, TX

Date: Thu, 25 Nov 1999 19:41:18 EST
 From: W1XV@cs.com
 To: qrp-l@lehigh.edu
 Subject: [56791] Re:%20To%20QRP%20or%20Not%20to%20QRP
 Message-ID: <0.d8ac5a6f.256f312e@cs.com>
 MIME-Version: 1.0
 Content-Type: text/plain; charset="us-ascii"
 Content-Transfer-Encoding: 7bit

Dan:
 I also recall that article from QST. But one has to chuckle a bit. It all depends on what the ions are doing above us!! In the recent Nov SS SSB contest I ran 5 watts and received many unsolicited FB

sig/audio reports on all the bands. Yes, it's true, on several exchanges I did have to repeat the check ot number but so did some QR0 folks. Without an S meter I would guess that most of us couldn't tell the difference between an S6 and S9 report anyhow. Just my 2 cents worth. 72 Brad

Date: Thu, 25 Nov 1999 19:39:32 -0600
From: "Richard Matthews" <prm@hiwaay.net>
To: <qrp-1@Lehigh.EDU>
Message-ID: <007301bf37af\$177aee00\$6f85150c@scottsboro.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Subject: HB: Screwdriver substitute

> Hey Guys,
> I was wondering if anybody knows of any substitutes for metal
> screwdrivers Im not looking for anything expensive, just something that
will do the job and could possible be available around the house. Anybody
know of anything that would work?
> Ben - NW7DX

.....
Hey, finally a question I can answer. I just made one today.

Go to your bathroom and find an old toothbrush. Cut off the brush part leaving the handle. Use a Dremel tool sander or a belt sander or just some rough sandpaper to remove material on the cut end of the handle to make the rough size and shape of the screwdriver you need. Use an Exacto knife or other sharp knife to finish the end down to a perfect, strong plastic screwdriver. It will last for years and can be made in 5 minutes.

Just started organizing my parts tonight to build the Small Wonder Labs DSW-30. These rigs are named aptly for they are truly small wonders. Thanks Dave for such a quality, easy to build, great working, fun kit. If I buy a third one do I get a discount? 80 meters would be nice.

Never did hear that beacon today here in North Alabama's Tennessee River valley, too much static . . . could it be we have too many TVA electrical power plants around here?

Richard, WA4NWW at the foot of Sand Mountain, Alabama

Date: Fri, 26 Nov 1999 01:52:09 -0000
From: "Walt Amos" <waltamos@surf.free.com>
To: "Qrp-l Posts" <qrp-l@lehigh.edu>
Subject: [56793] To beacon or not, that's the question
Message-ID: <004f01bf37b0\$dcac14a0\$cc4d1b26@waltk8cv>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

While all of you were listening for the beacon I, on the other hand, was listening to 15 meters with my MIGHTY T-KIT 1253 REGEN and heard 5C8M , YES !! Morocco, on a regen! Time was 1900Z. He said he was near Rabat. He was on SSB . He was MIKE DJ2QV never did hear the 4 mw beacon but then I wasn't listening to it was I.
:-)

Walt K8CV Royal Oak, Michigan QRP-L # 935 ZOMBIE # 188

Date: Thu, 25 Nov 1999 20:49:35 -0500
From: "Jim Marciniak" <n1rui@together.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, <lmartin@uswest.net>
Subject: [56794] Re: Figuring out my new Index Labs QRP+
Message-ID: <000b01bf37b0\$7ee6f420\$13c0fea9@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Lou,

The circuit description says:

SSB TRANSMIT:

the signal from the microphone is amplified by VOGAD circuit. The gain is automatically set to the correct value, compensating for different mics and voices. the audio is applied to a balanced modulator and the resulting SSB is routed to a limiter which provides RF speech processing. A wide range ALC circuit further increases average power.

CW TRANSMIT:

When the key is closed, the microprocessor performs all the switching functions with appropriate delays to ensure smooth break-in operation. A voltage, set by the CW power control is applied to the SSB balanced modulator while the BFO frequency is shifted down another 650Hz to center the passband. This creates a 50MHz carrier whose level is set by the CW power control. From this point the CW and SSB signals follow the same path.

Hope this helps you out.

72 & 73,

Jim N1RUI

----- Original Message -----

From: Lou Martin <lmartin@uswest.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Thursday, November 25, 1999 5:27 PM

Subject: Figuring out my new Index Labs QRP+

> Hi again,

>

> Stupid me! I guess I'm not used to reading digital dials (there aren't any letters

> on the dials of my R4A or R-390A). Until now I could not figure out what the 55.8

> readout meant when I pushed the BANDWIDTH button.

>

> Now I understand that it actually says SSB, and the "CbJ" is actually CW! So what

> does it mean? I know I was able to operate either SSB or CW when it said SSB.

> Does it change filters? Does it enable/disable the internal keyer (I was using a

> bug)? Does it change the AGC constants? Does it change the memory recalls to the

> appropriate section of the bands?

>

> I switched between SSB and CW while monitoring both types of signals and didn't

> hear any differences.

>

> Any help would be appreciated.

>

> 72, LOU

>

>

Date: Thu, 25 Nov 1999 01:44:02 -0700
From: Ray Colbert <af852@rgfn.epcc.edu>
To: BenNW7DX@aol.com
Subject: [56795] Re: HB: Screwdriver substitute
Message-ID: <383CF6D2.8F005CFC@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you have a parts supplier in your town or nearby, (radio shack
dpage 204 of the latest catalog, 64-2223 at .99, 64-2220 at 2.99
which is 5 piece and 64-2230 which is 5 piece anti-static)
look for a plastic tuning tool - plastic shaft with a small
imbedded metal piece in each end, one is exposed as a screwdriver
and the other end is recessed for fitting over a tuning shaft
like in IF transformers, etc. AKA alignment tools.

There are also available a whole set of assorted
sizes from some suppliers, like GC, Jensen, etc but you
won't need more than one or two for most jobs. You can
also make your own with the shaft of a ballpoint pen, small
snip of metal- maybe about 3/16 or 1/4" square and wedged into
the plastic body of the old pen. The small piece of metal is
small enough that it does not usually cause a problem with
detuning the stage you are trying to adjust. Or as a last
resort, if you know someone in the 2 way industry - they may
have an extra tuning tool - that is if they still do adjustments
on those things.

73 Ray

--

"Politicians are like nappies. Both should be
changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"

Ray Colbert, W5XE, 00TC 3618, SOWP 1064M NCT2
(also w5xe@juno.com El Paso, (FAR WEST) TEXAS

Date: Thu, 25 Nov 1999 20:52:31
From: Robert McConnell <rmcconne@lightlink.com>
To: BenNW7DX@aol.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [56796] Re: HB: Screwdriver substitute
Message-ID: <3.0.6.16.19991125205231.20970a5c@pop.lightlink.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ben,

Tuning or alignment tool kits often have plastic tools of assorted sized for adjusting slugs in various coils and transformers. Some of them also include flat blades of various sizes. Radio Shack used to carry a small set, but better electronics stores of all kinds should have these tools. There were also some in the DigiKey, Mouser and Jameco catalogs in the past. I haven't looked for them lately. Check with local TV repair shops, or where you take VCR's or Monitors to have them repaired.

Bob McConnell
N2SPP

At 06:43 PM 11/25/99 EST, BenNW7DX@aol.com wrote:

>Hey Guys,
> I was wondering if anybody knows of any substitutes for metal
>screwdrivers. A few months ago I received a Rainbow tuner and have been
>attempting to adjust the variable cap with a *metal* screwdriver, which of
>course you know detunes it alittle bit, so I've been experimenting trying to
>figure out how much more or less I need to tune the cap with the screw
driver
>as to get good match once the screwdriver is taken off. Well, I havent
>really liked doing it this way, so i've been on the search for a screwdriver
>substitute. I know there are some plastic ones available and other
>commercially made things, but are there any house-hold objects that might
>work? I have tried using those plastic silverwear knives, but they are too
>thick for the grouve in the capacitor. Im not looking for anything
>expensive, just something that will do the job and could possible be
>available around the house. Anybody know of anything that would work?
>
>Thanks for your time,
>Ben - NW7DX
>Redmond, Wa
>
>

Date: Thu, 25 Nov 1999 21:22:00 -0500
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [56797] ZM-2 enclosure
Message-ID: <07c601bf37b5\$05f65060\$0100a8c0@ix.netcom.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey, folks, got a question.

I just got the ZM-2 kit in the mail (thanks for the fast service Emtech) and was wondering. The enclosure is a black plastic box with a metal front. Haven't looked carefully and not sure what I'd be looking for but can a plastic front be used instead of the metal front? Plastic is a lot more forgiving in making holes in it.

TIA

Michael - N4NMR

Date: Fri, 26 Nov 1999 02:51:58 +0000
From: "David Hurley,n2zhy" <n2zhy@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [56798] CINNAMON ALTOIDS!!!!!!!!!!!!!!
Message-ID: <383DF5CE.94CF3255@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Is it a Y2K thing? Maybe Alien technology? Possibly a freak of nature?

ALTOIDS NOW COMES IN CINNAMON!!!!!!!!!!!!!!!!!!!!!!

50g size in rich earth tones. Gold/brown.

Eat em an weep!

David Hurley,n2zhy
Princeton,NJ

Date: Thu, 25 Nov 1999 22:16:05 -0500
From: "Ron Polityka" <wb3aal@talon.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [56799] WA3WSJ/C6A worked
Message-ID: <00f201bf37bc\$93e68280\$70e508cf@wb3aal>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just worked Ed, WA3WSJ/C6A, on 3506.3 MHz,
Nov. 26, 1999 @ 03:05 UTC

Check out this web site and click on DX Alert for more information.
http://www.kpsnet.com/wb3aal/Start_Page.htm

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv
http://www.kpsnet.com/wb3aal/Start_Page.htm
Eastern Pennsylvania QRP Club Call --> N3EPA

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI-QRP #153
VA QRP Society	

SETI @ Home Project
<http://setiathome.ssl.berkeley.edu>
100 + Work Units Completed

Date: Thu, 25 Nov 1999 19:24:39 PST
From: "Jesse Hires" <jhires@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [56800] Looking for info on vectronics
Message-ID: <19991126032439.23633.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Anybody heard anything about vectronics kits? Good? Bad? Indifferent?

They have a website at <http://www.vectronics.com> and these are the kits that
<http://www.radioshack.com> has.

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Thu, 25 Nov 1999 20:10:40 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [56801] High Bands, CQWW and my QSL's
Message-ID: <Pine.GS0.4.10.9911252004001.4826-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

I played around on 10m a bit this AM and WOW!!! I can't ever remember hearing so many LOUD sigs from EU and AF.

I worked the 5C8M and 3V8BB for new ones. Listened to a whole bunch of others. Did work a 6W6 with QRP.

This weekend should be GREAT for the CQWW.

And for those who don't like contests, it's a good time to use the WARC bands or even....ugh....ummmmm.....gad, it's so hard to say.....SSB....! :-)

CQWW is the biggest DX contest going. Great place to get a few new countries. Many of these stations can hear you when you turn the RX on! Well, OK, not QUITE that good, but close!

QSL cards.....

I just finished the last of the stack of QSL cards I have received over the past month. If you have sent a card and haven't got mine yet, they will be into the hands of the USPS tomorrow.

Hope you all had a good Turkey day!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

Date: Fri, 26 Nov 1999 04:13:09 -0500
From: patrick m kvitkauskas <pmk@juno.com>
To: qrp-1@lehigh.EDU
Subject: [56802] Ferrite Toroid ID ? To mark or not to mark ?
Message-ID: <19991126.042156.10302.1.pmk@juno.com>

Thanks for all of the feedback.

I was overwhelmed with that response and had some good feedback. For those that scolded me about using a scribe not to worry. I did not gouge into the toroid itself just the paint. I figured the paint pen would work a lot better than a white out type paint as it is so thick and would probably come off when trying to mark it.

Someone mentioned marking the iron ones but with my trusty autographed QRP Data book by Paul Harding NA5N That is not a problem. Think I will get another as it gets used quite a bit.

I think I figured out that the colored dots are going to be the way to go. I seen some colored markers a few weeks ago at a fair well party when we all signed the card and was impressed with the colored pens that was passed along with the card. It even had a white one in it. I am now going to check to see if there are all 10 colors like the resistor codes. One of my elmers taught me a neat trick years ago when hooking up colored wires was to just use the color code. Sure sometimes some of the colors were not there so you just skipped to the next color that was in order so when either end got hooked up they would be the same and all worked great every time.

72 es Thanks
Patrick KD4OBQ

AR

send replies to
pmk@juno.com for faster service (checked twice daily)
pmk@bellsouth.net to send pictures
<http://www.qsl.net/kd4obq/> QRP site
<http://homestead.juno.com/pmk/FILES/INDEX.HTM> R/C soaring site

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Thu, 25 Nov 1999 22:37:32 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: af852@rgfn.epcc.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [56803] Re: HB: Crystal question
Message-ID: <383E0E8C.5A632813@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Folks that are worried about possibly damaging vintage crystals might resort to the "standard practice" of the 40's with crystal oscillators: a dial lamp ("pilot light") in series with the crystal. The lamp serves as an indicator of relative crystal current and as a fuse which will open up if excessive current is drawn for any reason.

I recall using the No. 47 which I believe has a 150 ma rating. It has a tan/brown bead with a bayonet base. I used the lamps with the Bliley AX-2 AT-cut crystals which were popular post-WWII.

72/73, George
Fairview, TX 30 mi NE Dallas in Collin county
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972

Date: Fri, 26 Nov 1999 00:23:31 -0500
From: Ken Newman <N2CQ@citnet.com>
To: QRP-L@lehigh.edu, njqrp@njqrp.org
Subject: [56804] CONTEST: QRP This Weekend
Message-ID: <3.0.6.32.19991126002331.00930440@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

~~~~~  
QRP CONTEST CALENDAR

Nov 27-28, 1999  
~~~~~

CQ World Wide DX Contest (CW) ... QRP Category!

Nov 27 - 0000z to Nov 28 - 2400z

Rules: <http://cqww.com/cqww/cqwwrule.html>

~~~~~  
AND LATER.....

~~~~~  
ARRL 160 meter Contest (CW) ... QRP Category

Dec 3 - 2200z to Dec 5 - 1600z

Rules: <http://www.arrl.org/contests/announcements/rules-160m.html>

~~~~~  
TOPS Activity 80 Meter Contest (CW) ... QRP Category

Dec 4 - 1800z to Dec 5 - 1800z

Rules: <http://home.sol.no/~jana1me/rules/tops.txt>

~~~~~  
QRP ARCI Holiday Spirits Homebrew Sprint (CW) *** QRP Contest ***

Dec 5 - 2000z to 2400z

Rules: <http://www.qrparki.org/sumhom.htm> (Summer Rules OK)

~~~~~  
Adventure Radio Society - Spartan Sprint (CW) \*\*\* QRP Contest \*\*\*

Dec 7 - 0200z to 0400z (Monday Evening - N & S America)

Rules: [http://www.natworld.com/ars/pages/spartan\\_sprints/ss\\_rules.html](http://www.natworld.com/ars/pages/spartan_sprints/ss_rules.html)

~~~~~  
ARRL 10 Meter Contest (CW/SSB) ... QRP Category

Dec 11 - 0000z to Dec 12 - 2400z

Rules: <http://www.arrl.org/contests/announcements/rules-10m.html>

~~~~~  
The Great Colorado Snowshoe Run (CW) \*\*\* QRP Contest \*\*\*

Dec 12 - 0300z to 0500z

Rules: <http://home.sol.no/~janalme/rules/snowshoe.txt>  
~~~~~

72 de

Ken Newman - N2CQ

Woodbury, NJ

N2CQ@ARRL.NET

~~~QRP Contest Calendar~~~

<http://www.njqrp.org/data/contesting.html>

~~~WQ2RP NJQRP Club Station~~~

Date: Fri, 26 Nov 1999 00:05:03 -0600 (CST)

From: aweiss@usd.edu (Ade Weiss W0RSP)

To: qrp-l@lehigh.edu

Subject: [56805] Warning-30m Post-- Hot DAWGGG!! HC8N and T32B0!!

Message-ID: <199911260605.AAA09733@sunburst.usd.edu>

Hi gang:

Long time since last 30m post -- dry period!! But Thanksgiving Day has a real point now!

First, HC8N pile-up, 20-mins calling, score 0352! The CCD halfwave vertical went down about 2 weeks ago, so sort of crippled to the south except close-up Carrib stuff which I can pick up on the 20m loop.

So, great day! Just tune around. Heard TA3DD working TI2PZ and called him on the fullwave up 48-ft aimed at EU. He didn't hear me, but TI1PZ QRZ'd w. "very weak" so flipped to the CCD and solid 559-me 569-him. Then... tune around

Stumbled across T32B0 tuning up on 10105.8. Called about 8 times and he was and is still having trouble copying US -- lot of repeats etc. Got him at 0516! Switched to

the fullwave and that ant for a change made it instead of the halfwave vert, which is almost always superior to the Pacific. Now it wasn't easy -- took 2 mins for 3

repeats until the "P" and then the "S" got straightened out. But no doubt about it!

"W0RSP" and he apologized for the QRN and poor condx -- to others as well! I had given up on him -- he's only 559 tonight -- called him a lot at his 57/89!

So, finally broke the barrier of 112 countries! I've been sitting at 112 since 11/12 when

I broke the pile-up on V51AS! Wow! He's 559 and I get a 549!

30m has been hopping, but too much competition now with seasonal change. Seems like

the number of QRO's has quadrupled, so pile-ups are a mess. What really bums me is that I'll sit there calling my head off for a half-hour, during which time at least 20

QRO types will zip onto freq, join the pile-up, and nail the DX the first time. But it is

still great to have a T32B0 take the time "W0R?W" then "W0R?P" then "W0RSP cfm" while all the QRO guys sit there!

What I have missed since I reached the 100 country mark? This stuff isn't easy. M0re great DX has been showing up these days to miss. It gets very frustrating. I was really considering forgetting about 200 the last several days. Here are the countries that I've missed since making 100 Oct 13:

A61AJ, 9H1ZA, 4K8F, 4X4DK (58/99 several nights!), PY0WMM, JA8AX0, T97V, J79KS, XT2HP, EI5DR. So, I could be at 124 if I got 'em all.

Maybe someone will be interested in a look at my log since making DXCC on 30m.

the ** stations are new countries starting with 101.

October: 13, UA2FM/mm/CN8; 14, OH2MCN; 15, 3B8FG (worked him before), VK4ICU, F00K0J (Austral - wrked b4); 16, **UN1F, XE1IDJ; 18, KP4RP; 21, KL7VIC; 22, DK8FD/VP9; 23, **FS/N30C; 27, **VP2MBT; 28, T00DX, VP5/WA2VYA; 29, VP5/NOAT, KP2/WD4JNS; 31, **JW7QIA, UA4PNL, **5W0ST, OH3ES;

November: 1, VP2V/G3TXF, **Z32ZM; 2. OH2MCN, **V26AK, XE1/NP2AQ; 3, UX0ZX, **GI0KOW; 4, **F00SOU (Marquesas), ZL2CD, HA1AG; 5, RA6UH **PJ2/PA0VDV, **OA5/F9IE; 8, V47GU, RK10WZ, V47BY; 9, VK4XA, V47DA; 10, TI2PZ; 12, UA4LCH, **V51AS; 13, UA0AZ, UA4PM0; 14, SP2EBG; 16, SM3EVR; 18, OH2MCN, OH3TM; 20, HB9BQR; 21, UA4LCH, C6AKP, YV1DIG; 24, 8P6DA, VP2MGU, EA8CN; 25, R1AND; 26, HI3/OH3UU, **HC8N, OH4MDY, RX6AM, TI2PZ, **T32B0.

Now, the main point is: I was on every night and most nights called at least 2 DX stns, sometimes up to 5 -- whatever I heard. But, I zipped on many nights! With the WW DX this weekend, activity has improved with the DX-peditions, but so has the competition. That A61AJ in Arab Emirates and some of the others were

always weak 44/45/55 but a lot of what I have worked was down that low. T32B0 is still there and vy difficult copy. You never know when your QRP sig is going to get way out there in a copiable level! I always am blown away when one of these 449 (sometimes 339) DX stns come back to me!

Oh well, I apologize -- but HEY, I haven't wasted any bandwidth here for a long time, have I?

Incidentally, I put up the CCD halfwave vertical a couple of months ago. It came down for a week -- wind, but I finally got it back up yesterday. Which is the best antenna, the fullwave or the cCD vertical for DX? BOTH. The fullwave is 99% best to EU, it's a toss up to N Africa, and the CDD is 80% best to S. Africa, Pacific, and S. America. With the CCD down, I felt crippled to the south -- and in fact was.

Maybe the lesson here is: two antennas are better than one. Toss in the silly 20m Delta loop apex at 48-ft and it gets even more complex. This stupid loop is best to the close-in 4000km Carrib stuff 75% of the time! It works stuff I can't hear on the fullwave up 48-ft. But for the long hauls, the CCD halfwave vert. kills it every time. So, three antennas are actually better than one, and the third in this case is actually a poor antenna for 30m. It's lobe are E-W, NOT N-S, but on 30m, its radiation pattern is very roundish. Given the high angle the to Carrib, its sidelobe (hardly down from the major lobes) is usually better than the CCD.

OK. I've used up my bandwidth credits for a while.

Adios!

72, Ade

Date: Fri, 26 Nov 1999 00:22:22 -0600 (CST)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-l@lehigh.edu
Subject: [56806] Re: Tuned Radials
Message-ID: <199911260622.AAA11738@sunburst.usd.edu>

Hi: "tuned radials" applies only to elevated systems. The amount of elevation needed before a radial exhibits resonance traits depends upon the ground conductivity and the band. On the ground, radials are not resonant in any definable way to the intended frequency of operation.

72, Ade

Date: Fri, 26 Nov 1999 02:35:57 -0500
From: Paul Stroud <aa4xx@ipass.net>
To: QRP-L <QRP-L@lehigh.edu>, klqrp <klqrp@waterw.com>
Subject: [56807] WQ4RP 40M 5mW Beacon Results
Message-ID: <383E385D.E4638A16@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

Thanks to everyone who listened for the beacon and posted reception reports. Quite a few reports were received, and there were some surprises--most notably the SC and GA stations who were on the backside of the wirebeam. Two stations (N4BYJ and KG4CRU) copied the 5mW beacon with indoor attic antennas, proving that QRP'ers are some of the best listeners in the world.

Several stations reported that they had better success switching to antennas with less gain due to the benefit of reduced atmospheric noise. K04PY ended up using his 20M yagi and experimented by rotating it for best S/N. A number of operators reported that the test gave them an opportunity to test a variety of receivers and receiving antennas, which is the prime reason for the beacon tests...

Another beacon session will be held over the Christmas Holidays, perhaps at the 500 microwatt (1/2 milliwatt) level. Many of you are up to that challenge. :-)

Congratulations to the following QRP'ers who successfully copied the WQ4RP 5mW beacon:

| | | | | | | |
|--------|---------|--------------|----|-------|---------|--------------------|
| N1EI | Charlie | (eastern) | CT | 1400Z | 219 | 40M Delta Loop |
| WB8QYY | Dieter | Loveland, | OH | 1355 | 219 | 40M Phased Verts |
| WB4VFN | Rich | Hyden, | KY | 1415 | 339 | Windom |
| W4ED | Bob | Atlanta, | GA | 1430 | 339 | 80M Hor. Loop @40' |
| W4SEA | Rick | High Point, | NC | 1438 | 229 | Vert |
| KU4AF | John | Pittsboro, | NC | 1415 | 529/579 | 40M Dipole @50' |
| W4AWT | Dallas | Raleigh, | NC | 1540 | 319/559 | 35' LW @15' |
| K4PYM | George | Walhalla, | SC | 1604 | 449 | G5RV @70' |
| N4BYJ | Alex | Win-Salem, | NC | 1620 | 339 | 35' Attic Array |
| AB4PP | J.P. | Raleigh, | NC | 1400 | 339 | Carolina Windom |
| K4NK | Les | Greenville, | SC | 1500 | 229/449 | Inv Vee |
| W2UX | Gary | Lexington, | SC | 1539 | 229/549 | G5RV @40' |
| K04PY | Brent | Raleigh, | NC | 1640 | 339 | 20M Beam |
| WB8YYY | Curt | Eldersburg, | MD | 1555 | 429 | 180' OCF Dip @30' |
| N3AT | Lamar | Kresgeville, | PA | 1625 | 229 | Windom @40' |

| | | | | | |
|---------|-------|--------------|----|------|------------------|
| KV4AP | Jeff | Manassas, | VA | 229 | |
| KG4CRU | Dick | Morrisville, | NC | 1800 | 539 Attic Dipole |
| W6TOY/3 | Bruce | Washington, | DC | 1600 | 219 |

The KnightLites would like to invite you to consider operating the KL Holiday Mw Contest over the Christmas Holidays. Additional details on this contest will be posted to QRP-L during the next few weeks.

Thanks for the milliwatt fun es 72, Paul AA4XX nr. Raleigh, NC

 Date: Fri, 26 Nov 1999 06:33:32 +0000
 From: Michael Neverdosky <mneverdosky@earthlink.net>
 To: BenNW7DX@aol.com, qrp-l mailing list <qrp-l@Lehigh.edu>
 Subject: [56808] Re: HB: Screwdriver substitute
 Message-ID: <383E29BC.25DC9DE7@earthlink.net>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=us-ascii
 Content-Transfer-Encoding: 7bit

The best tools for making these adjustments are the ceramic tuning tools but they are neither inexpensive nor household items.

I often use bamboo chopsticks. It is easy and quick to carve the end to the shape and size needed, if (when) the tip breaks just carve it back to shape. One plus, the bamboo will nearly always break before the cap or slug.

michael N6CHV (in central Florida)

BenNW7DX@aol.com wrote:

>
 > Hey Guys,
 > I was wondering if anybody knows of any substitutes for metal
 > screwdrivers.

Im not looking for anything
 > expensive, just something that will do the job and could possible be
 > available around the house. Anybody know of anything that would work?

 Date: Fri, 26 Nov 1999 06:52:30 -0600
 From: "Nick Kennedy" <nkennedy@cswnet.com>
 To: "QRP-L" <QRP-L@Lehigh.EDU>, <n3fel@juno.com>
 Subject: [56809] Re: Measuring Transistor Beta?

Message-ID: <000801bf380d\$2daff5e0\$0500000a@Bleh.Bleh>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Howard--

>CHECK INTO THE TRANSISTOR DATA SHEETS. THEY OFTEN INCLUDE TEST CIRCUITS
>FOR VALIDATING CLAIMS FOR GAIN, ETC. SEARCH FOR A TWENTY YEAR OLD ORANGE
>COLORED TEXAS INSTRUMENTS OR BROWN COLORED MOTOROLA DATA BOOK ON BIPOLAR
>TRANSISTORS. TI IS OUT OF THAT BUSINESS NOW, BUT YOU MIGHT FIND A COPY
>OF THE MOTOROLA SEMICONDUCTOR DATA BOOK LURKING AROUND SOMEWHERE. IF YOU
>ARE DESPERATE, I CAN MAIL OR FAX YOU A COPY OF A TYPICAL PAGE. PLEASE
>ADVISE WHICH 2N... NUMBER YOU ARE TRYING TO EMULATE.

That's a good idea. I did have a big RCA transistor book from 1971. No Hfe
circuits, but it did have a neat keyer in the application notes section. It
uses a half dozen 2N404s.

I guess I'm thinking mostly of signal or low power transistors. Like
2N2222, 2N3904, 2N3866. Things QRPers use.

>YOU MAY HAVE A BIT MORE CAPACITANCE BYPASSING THE TRANSISTOR JUNCTIONS
>THAN YOU BARGAINED FOR. ALL POWER GAIN MEASUREMENTS SHOULD BE MADE WITH
>MATCHED IMPEDANCES AND LOSSLESS CIRCUITS. HOW ABOUT DEVISING A CIRCUIT
>THAT WOULD OSCILLATE AT THE FREQUENCY OF CHOICE IF THE GAIN OF THE DEVICE
>WAS APPROPRIATELY HIGH? MAYBE A CIRCUIT THAT WOULD FIND THE HIGHEST
>FREQUENCY OF OSCILLATION POSSIBLE FOR A DEVICE UNDER TEST? IT WOULDN'T
>FIND THE GAIN BUT IT WOULD GIVE YOU SENSE OF QUALITY.
>

Right. That's the kind of stuff I've been finding out. The circuits I've
seen in books do what you say. That is, try a transistor with different
crystals or frequencies to see how high it will go.

I might try that or I might proceed as I was out of pure bull-headedness.
Thanks for the feedback.

72,

Nick, WA5BDu

Date: Fri, 26 Nov 1999 07:17:31 -0600
From: "Terry Bassett" <mutabut@net66.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [56810] FOX N/T+ Tony KB9TIQ 0000 Sunday UTC
Message-ID: <000301bf3810\$992c1b20\$2b5e8bce@host.net66.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This is a reminder for all,

Tony will be trying his hand at a first outing Saturday Night, 0000
Sunday UTC. Please take time out to give him a listen and work him if you
can...

72,

Terry KA9TXE East Central Illinois

Date: Fri, 26 Nov 1999 07:26:39 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: K5ln@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [56811] Re: FOX: Final Log for K5LN (23 Nov 99) 2nd try
Message-ID: <Pine.LNX.3.95.991126072612.7073A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello Bill.....your logs are coming through fine at this qth....thanks!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"
"I am da man wit "DAH" paddle!"

Date: Fri, 26 Nov 1999 08:48:09 -0800
From: Timothy Herron <drboom@bright.net>
To: "qrp-1@LeHigh.edu" <qrp-1@Lehigh.edu>
Subject: [56812] vfo working !!!!!

Message-ID: <383EB9C9.B2E3DCA5@bright.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

I just started on the ole 2N2/40, finished up the vfo circuit and low and behold " IT WORKED" that's pretty unusual for me. :)
Anywho, this thing looks horrid but great fun to build so far, can't wait for the sections that I screw up on and have to trouble shoot. Think the only shooting I'll do is my foot for mess'in up in the first place, but I'll have fun doing it.....(Trouble shoothing the rig, not shoot'in my foot.) !!!

Are there still certificates available for a confirmed contact with this beautifully, ugly rig?

72

Tim NM8Y

Date: Fri, 26 Nov 1999 09:40:09 EST
From: PDouglas12@aol.com
To: drboom@bright.net, qrp-1@lehigh.edu
Subject: [56813] Re: vfo working !!!!!
Message-ID: <0.d1c28e84.256ff5c9@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

In a message dated 11/26/99 8:48:48 AM Eastern Standard Time, drboom@bright.net writes:

> Are there still certificates available for a confirmed contact with this
> beautifully, ugly rig?
>

Yup, I'm still doing certificates. I need a photo (crude, digital will do) and call of first QSO when you get there. Send with a large SASE (so I don't have to fold your 8 1/2 by 11" certificate) and sufficient postage to me:
Preston Douglas WJ2V
216 Harborview North
Lawrence, NY 11559

OK?

Date: Fri, 26 Nov 1999 10:02:48 -0500
From: Jim Stafford <w4qo@amsat.org>
To: qrp-1@Lehigh.EDU
Subject: [56814] CLUB:QRP ARCI-Jan.2000 issue deadline
Message-ID: <383EA118.B8415142@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

The Jan. 2000 is shaping up nicely per editor NA6E. If you want to get your copy, you will need to RUSH off your renewal or new subscription by December 1 to:

Mark Milburn, KQ0I
QRP ARCI
117 E Philip St.
Des Moines, IA 50315-4114

The price is \$15 per year. If you did not get the QQ (last issue) with Rod Stafford, W6ROD, ARRL Pres on the cover then you have expired (well, your subscription has anyway). If you got it and looked at the envelope and saw it was your last issue, well, better hurry. A form is available at: <http://www.qrparci.org/arcijoin.html> If you could print/use it, much appreciated by all concerned. This permits us to process your application and get labels printed by Dec. 15.

For those who have missed an issue or two, they are available from: Danny, K3TKS@abs.net. Or check the web page: <http://www.qrparci.org/aqqbak.html> We try to have at least one year available as a service to our members but sometimes run out.

Lastly, if you want to check to see if/when you "expire" or have other questions, send me an email at: w4qo@arrl.net

72,
Jim/W4QO
#6515/Pres.

Date: Fri, 26 Nov 1999 10:22:37 EST
From: K2UD@aol.com

To: qrp-1@lehigh.edu
Subject: [56815] Re: HB: Screwdriver substitute
Message-ID: <0.64e22dfe.256ffffbd@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

The ubiquitous (a word I learned yesterday and couldn't wait to use in a sentence) Orange Stick from the General Machine Products Co. This is a 6" long wooden stick with screwdriver tips on each end. I had a few way back in my Novice days, and rediscovered them in the elevator industry.

No. 06320
Orange Stick
General Machine Products Co., Inc.
3111 Old Lincoln Highway
Trevose PA 19053-4996
(sorry, no tel.# available)

72

Howard Kraus, K2UD

Date: Fri, 26 Nov 1999 15:31:12 GMT
From: "ME Pendergast" <kt4an@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [56816] What kit to build???
Message-ID: <19991126153112.47486.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi everyone,

I am fairly new to QRP and to kit building. I have been running qrp on my gro rig but want to try my "inexperienced kit-building" hand at building a radio that I can use on the air and use qrp. This is a very exciting aspect of amateur radio for me, which I am sure is of no surprise to most of you. My question: what would be the best kit to build for someone who has only a little kit building experience? I am considering the dsw-20 or 40 from Small Wonder Labs. Is this a good choice? Are there others I should consider? The review of the DSW in CQ for Dec. makes it sound like a fairly??? simple rig to build. I would appreciate some input. The choice is to be my wife's Christmas present to me. (She wants to paint while I am busy with the radio!!!) Thanks for your comments.

Mike KT4AN
kt4an@hotmail.com

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Fri, 26 Nov 1999 07:34:47 -0800 (PST)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [56817] mW QRPP is only 10dB below 5w QRP!
Message-ID: <19991126153447.27378.rocketmail@web704.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

>Just got my Oak Hills Research WM-2 mWatt meter in
>the other day. Now I am going to melt some solder
>tonight.
>Next 100 DX Countries will be with mWatts.
>Always remember to have fun. It is a great hobby.

Friends,
Just like Bob White W03B used to say when he was
milliwatt columnist at QRP ARCI. "Milliwatt QRPP is
only 10dB below 5w QRP"!

This weekend if you can invest enough time, you could
get a great start on mW DXCC.
And remember that QRP ARCI has just this year
recognized the mW DXCC with its own award.

There is a link to ARCI on my webpage, so read up on
all the QRP ARCI awards. Take note that you can apply
for the basic QRP DXCC OR mW DXCC with 25 or 50
countries confirmed!

Output power is considered 1/2 of input power, so if
you don't have a WM-2 meter you can still start now.
Measure the input power draw at key down, and divide
by 2.

If you are a little "timid", just set your power at
750mW, and have a go at that level. Read the mWNews at
ARCI's home page, and let those milliwatts fly!

If we have band conditions, 750mW will bag you plenty
of DX!

Just be sure you are "zero beat" with the DX stn. The
exchange is RST and CQ Zone.

It all gets started tonight USA evening time. So have fun in the CQWW DX contest!

72/71's de Jim KJ5TF - zone 4

=====

Ham radio/alt energy - <http://www.qsl.net/kj5tf/>
Milliwatting Editor ARCI QRP Quarterly
AR QRP#2 - Kingston, Arkansas - 35.94N 93.47W

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Date: Fri, 26 Nov 1999 07:42:57 PST
From: "Bruce Prior" <n7rr@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [56818] N7RR Fox -- Monday, November 29
Message-ID: <19991126154257.97600.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

N7RR Fox Announcement

Ladies and gentlemen of the hound variety, please join the fun of the fox hunt again on Monday, November 29. The 2-hour hunt will begin at 1800 Pacific Time, 1900 Mountain Time, 2000 Central Time and 2100 Eastern Time. That's 0200 to 0400Z Tuesday in Jolly Ol' England.

I will transmit as close as possible to 7036.00 kHz, and I will be using my RIT to listen for hounds between 7037.00 and 7039.00 kHz. Only in the unlikely event that I've worked all I can hear within that 2-kHz range will I venture closer to my transmit frequency or farther up the band than 7039.00 kHz. I will not be listening below my transmit frequency. Translation: if you transmit on or below my frequency, I won't hear you, so I won't be able to work you. If I am unable to settle on 7036.00 kHz, I will still be listening between 1 and 3 kHz above my transmit frequency for your calls.

I'll be using 5 W output power, driving one of two half-wavelength dipole antennas at any one time. One is oriented WNW-ESE, and the other is running SSE-NNW. Both are about one quarter wavelength above effective ground. I may try my horizontal random loop as well if the hound pack gets too thin. I will switch antennas about every 15 minutes, so if I'm really weak for awhile, hang on, maybe things will improve when I change antennas.

I will begin by calling "CQ FOX DE N7RR UP 1 TO 3 K". Please send your complete callsign once or twice. If you don't hear me calling someone, then try again. When I copy a call, for example, W3YYL, I'll try to match your sending speed and send something like:

W3YYL 549 BRUCE WA 1688 W3YYL ar

I'll send the "BRUCE WA 1688" portion faster than the rest, since it will be repeated for each QSO.

Once you've copied my exchange for your station, respond according to the following pattern:

N7RR DE W3YYL 439 JANE MD 2509 ar

Notice that there's no need for you to send "RST," or "my name is" or "my QTH is," or "my QRPL NR is," etc. Just send the exchange once, unless I ask for a repeat. In that case, you might want to repeat the information twice.

If I send, "AGN?", send the whole exchange twice. If I send "RST?", "NAME?", "QTH?" or "NR?", just give that bare information twice without any labels.

If I copy you properly, I'll send:

TU N7RR

and the chorus will continue. Please do not send your call unless I send "TU N7RR" or "CQ FOX DE N7RR UP 1 TO 3 K" or a partial callsign which matches yours, such as "YYL?".

When I change antennas, I'll transmit "as" and a brief carrier to tweak the tuner, and then I'll send another "CQ FOX DE N7RR UP 1 TO 3 K".

Hopefully all of this will allow as many of you as possible to make my fur fly! If you belong to one of the teams in the unofficial team competition, you might want to forward this announcement to your teammates. If propagation cooperates, maybe we'll set a new record for team "sweeps" on Monday night. The fox hunt is a win-win event. The more hounds who catch the fox, the more fun it is!

72, Bruce Prior N7RR in Blaine, Washington, very near the British Columbia border

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Date: Fri, 26 Nov 1999 07:50:15 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: N4BYJ <aturner13@mindspring.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [56819] Re: PEP reading for WM2?
Message-ID: <Pine.GS0.4.10.9911260748490.6769-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 25 Nov 1999, N4BYJ wrote:

> Does anyone know if the WM2 can be modified to read PEP and how this could
> be done?

Yes.

See the article by Larry East, W1HUE in the Jan 95 issue
of the QRP ARCI Quarterly.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

Date: Fri, 26 Nov 1999 11:00:38 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [56820] hungary falls to qrp
Message-ID: <19991126.110040.-194449.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Y'all

had my son visiting yesterday and was showing him some pictures on
sstv.... tuned up on 15 meters and heard hg5p.... when asked if I could
work him I gave it a try and ended up with a ssb and sstv 5w contact with
Louis in Hungary.... the ole 40 mtr dipole doing great job... Louis got
kinda excited when he found out I was using only 5 watts...

Joel KE1LA
In Maine

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Date: Fri, 26 Nov 1999 11:07:44 -0500
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "Lau, Zack, W1VT" <zlau@arrl.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [56821] wa3wsj/c6a 11-26-99 21.06
Message-ID: <8060D04206ABD2118C6800805FC743CCDE4487@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Got him at 1555Z-Zack W1VT Newington CT

Date: Fri, 26 Nov 1999 11:16:11 -0500
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "Lau, Zack, W1VT" <zlau@arrl.org>
Cc: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [56822] RE: wa3wsj/c6a 11-26-99 21.06
Message-ID: <8060D04206ABD2118C6800805FC743CCDE4488@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Oops, that was 28.06 MHz.--Zack

Date: Fri, 26 Nov 1999 08:29:45 -0800 (PST)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [56823] Re: To QRP or Not to QRP
Message-ID: <19991126162945.13637.rocketmail@web702.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

>There is more to weak signals than power. Weak
>signals are caused more times by propagation and band
>conditions than power output.

You said it all right there. There are times when
1000w is weak, times when 100w is weak, and times when
5w is weak.

Propagation, band conditions, and "path" is critical.
As is your feedline, antenna and zero beat skills.

The saying for QRPP is the same for QRP.
Its "skill, not power."

And if conditions dont allow QRP/QRPP, I shut off the
radio and do something else. No need to make anyone
strain there ears.

Have fun! de Jim KJ5TF

=====

Ham radio/alt energy - <http://www.qsl.net/kj5tf/>
Milliwatting Editor ARCI QRP Quarterly
AR QRP#2 - Kingston, Arkansas - 35.94N 93.47W

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Date: Fri, 26 Nov 1999 11:37:34 -0500
From: "Jim Marciniak" <n1rui@together.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [56824] Re: [TowerTalk] Drill Bit Sharpener
Message-ID: <003201bf382c\$bdbf2380\$13c0fea9@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Ted & Group,

Huh - I always found the big bits easy to do - the little ones used to give
me fits!

If you have access to a GENERAL catalog, look for the drill bit sharpener
(outboard) adapter for a grinder. It lets you set the proper bit angle,
though I'm not clear on how it helps you with the trailing edge of each
flute being lower than the leading (cutting) edge. This is usually where
trouble occurs. The adapter was pretty cheap, and I'll bet they have one at

any Woodworker's Warehouse.

By the way, the Black & Decker drill sharpener doesn't go up to 3/8, if I remember correctly.

Good luck.

73 from Vermont,

Jim N1RUI

----- Original Message -----

From: Ted Leaf <tleaf@hotmail.com>

To: <n1rui@together.net>

Sent: Friday, November 26, 1999 4:51 AM

Subject: Re: [TowerTalk] Drill Bit Sharpener

> Hi Jim,

>

> I do have a gringing wheel and have been sharpening my 3/8 bit, but it still

> won't cut right.

>

> I was taught in junior high school shop how to do it, and did sharpen many.

>

> Hope you had a good Thanksgiving.

>

>

>

> 73, Aloha

> Ted Leaf, K6HI

> Kona, Hawaii

> <tleaf@hotmail.com>

>

>

> -----
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>

Date: Fri, 26 Nov 1999 12:17:29 -0500

From: "Lau, Zack, W1VT" <zlau@arrl.org>

To: "Lau, Zack, W1VT" <zlau@arrl.org>

Cc: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>

Subject: [56825] More 10M DX

Message-ID: <8060D04206ABD2118C6800805FC743CCDE448A@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

OE3RPC at 28.067 and P40W at 28.033 for 2xQRP.-W1VT

Date: Fri, 26 Nov 1999 13:04:14 -0500
From: aa5yx@juno.com
To: qrp-l@Lehigh.EDU
Subject: [56826] Re: More 10M DX
Message-ID: <19991126.130416.11438.0.aa5yx@juno.com>

Win, 5C8M, on 11/24 at 1945Z on 28.430 while mobile with my HTX-10 while going out for ice cream. The LY2ZZ on the way home, 28.375.

John Harper AA5YX/2
HW-9, OHR-100A/20m, NC40A, SST/40, SST/30
YashicaMat 124G Info Page: <http://home.att.net/~j..harper>

On Fri, 26 Nov 1999 12:17:29 -0500 "Lau, Zack, W1VT" <zlau@arrl.org> writes:
>OE3RPC at 28.067 and P40W at 28.033 for 2xQRP.-W1VT
>
>

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Date: Fri, 26 Nov 1999 13:11:53 -0500
From: "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [56827] Re: PEP reading for WM2?
Message-ID: <001401bf3839\$b898dba0\$0102030a@amd300>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does someone have this article? Could find zero, nada

reference to a PEP reading for the WM2 on the WEB

73 - Dieter (DIZ) Gentzow - WB8QYY "oo's"
Loveland, Ohio - NE suburb of Cincinnati
FPqrp#1 QRP-L#1998 10-X#9389 CATT#26 K2#493
<http://w3.one.net/~gentzow/wb8qyy.htm>

>See the article by Larry East, W1HUE in the Jan 95 issue
>of the QRP ARCI Quarterly.

>

>cul,

>

>73, Ron, SOWP 5545M,

>

>.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....

>....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

>

Date: Fri, 26 Nov 1999 11:14:53 -0700
From: Ray Colbert <af852@rgfn.epcc.edu>
To: lmartin@uswest.net
Subject: [56828] Re: Figuring out my new Index Labs QRP+
Message-ID: <383ECE1C.6E3F7801@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It won't change bandwidth until you hold in the bandwidth
button and rotate the main tuning knob - will go from 2.4 Khz
to .1 in either cw or ssb. On mine, I find that for most cw
operations and best sound(for me), the .4 bw is better. Hold
in both the bw and rev button at the same time and rotate the
maintuning knob for cw speed. Hold in the mem button and rotate
the main tuning knob to go thru the memories - usually set
for two per band (default)- tuning on the rit position is
unlimited but when you return the switch to the xcve position,
the rit position is cancelled. gl

73

Ray

--

"Politicians are like nappies. Both should be
changed regularly -- and for the same reason"

"Scotsman - Scotsman's Diary 12/97"

Ray Colbert, W5XE, 00TC 3618, SOWP 1064M NCT2
(also w5xe@juno.com El Paso, (FAR WEST) TEXAS

Date: Fri, 26 Nov 1999 12:36:43 -0600
From: "Richard Matthews" <prm@hiwaay.net>
To: "q" <qrp-1@Lehigh.edu>
Subject: [56829] Reply to Kit to build
Message-ID: <010f01bf383d\$33ae88a0\$6f85150c@scottsboro.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Subject: What kit to build???

> My question: what would be the best kit to build for someone who has only
a
> little kit building experience? I am considering the dsw-20 or 40 from
Small
> Wonder Labs. Is this a good choice? Are there others I should consider?
The
> review of the DSW in CQ for Dec. makes it sound like a fairly??? simple
rig
> to build. I would appreciate some input.
.....

Mike, you cannot go wrong with the DSW's. I just got back into ham radio and just built the DSW-40 about two months ago and today I am building the DSW-30. I had not touched a soldering pencil in years, don't have any specialized kit building equipment, and my eye sight is not so good anymore, but I built the small wonder labs kit with no problem at all and am fully satisfied with it's quality and performance. The second kit is even easier after the practice I received building the first one. Another plus, if you goof the rig building completely Small Wonder Labs will get it working for a small fee.

I have had nothing but great experience with this company and their products

Richard, WA4NWW (Listen for me on 30 meters before long)

Date: Thu, 25 Nov 1999 21:56:38 -0500
From: "Scott Howell" <n3byy@yahoo.com>
To: <qrp-1@lehigh.edu>
Subject: [56830] paddle wanted
Message-ID: <001501bf383e\$992aa5a0\$9361b683@HQ.NASA.GOV>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've got a paddle in mind, but thought I'd ask if anyone has a good sturdy paddle with stiff action. If so, please drop me a note at this address.

tnx

73 de Scott/n3byy
Laurel MD
Fists #5030 . Qrp- #1689 . Zombie #333
for immediate response, send mail to n3byy@amsat.org
home page <http://www.qsl.net/n3byy>

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Date: Fri, 26 Nov 1999 10:29:32 -0800
From: "Arthur G. Silvers" <ags@ieee.org>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [56831] HB: 2N2/40 Progress Report
Message-ID: <383ED18C.95937FFE@ieee.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang!

Well I completed the receiver last week and was encouraged to hear 40 meters with only a 5 foot piece of wire. VE3DNL's marker generator sure came in handy for peaking and alignment. I ordered a set of matched crystals from K8IQY as I read about some very encouraging experiences by KR5L. Can't stand still waiting for parts..so yesterday, after a brisk 3

mile walk while waiting for the turkey,...and what a bird it was..but I digress.., I decided to construct some sort of resonant 40 meter antenna. My bench and QRP gear are in the garage and I already have a 20 mtr directly connected vertical dipole with radiator up into the rafters and offset buried in a flower bed in the back yard. This is by far a low profile minimalist setup but it has yielded some impressive results with both my SST20 and NC20. So I decided to replicate the design, rafters and flower bed, for 40 mtrs. I cut a piece of light gauge speaker cable to 33' 3" and unzipped it - one length from the bench up the wall and into the rafters and the other from the bench along the floor and out to the flower bed. I connected the 2N2/40 with alligator clips powered up and SHHHAZZAM! Signals all up and down the band, low noise, lots of audio, plenty of RF gain, and everything seems to work. And all this while still using the crystals from Dan's - two of which are in aluminum cans. Jim Kortge, you sure did your homework. This receiver is a real performer. Can't wait to swap out the crystals and note even better performance.

I finished the afternoon by winding the toroids for the transmit L0 and SB mixer and wiring all the remaining pad-to-pad connections. Then I shut off the soldering iron, cleaned up the bench and myself, and retired to carve the roasted poultry supreme, sweet tatters, homemade cranberry sauce, oyster stuffing, and some California Chardonnay. Yum! Yum! What a day. Thanks for letting me share it with you.

72/73
Arth W6AGS

Date: Fri, 26 Nov 1999 14:14:31 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: "James R. Duffey" <jamesd1@flash.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [56832] Re: Good L Antenna Article in 12/99 QST
Message-ID: <Pine.GS0.4.10.9911261357310.27209-100000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Duffey,

Many thanks for the kind words on the L-antenna construction article in QST. A background article is available at the site for further basic info on the antenna type itself.

Since doing the piece at Steve Ford's request, I came up with another wrinkle that might be useful. When on a hill top and looking only for skip, setting the antenna up as a dipole about 15' or higher (and letting

the hilltop be your tower) can net stronger skip signals. So I made a plywood rectangle with the horizontal mounted on one half of it (Home Depot tubing). I routed an arc on the other side. Mounted the vertical on a second small strip of plywood, and put a bolt through both pieces of plywood at the physical center point (or where the tubes would join, if I let them.) Instead of a short bolt to mount the upper fastener for the tube to plywood strip junction, I used a longer bolt lined up to go through the routed arc pathway. Now I can swing the vertical down to the horizontal position. Wide washers and a good wingnut complete the assembly. (Actually, you can get away with a vertical hole and a horizontal hole for the bolt, but I had not used the router in a good while and needed the practice.) The rectangle actually has a lower projection for attachment to a mast. When you wear out the CW/SSB parts of the band, go vertical with the movable leg and work FM repeaters on those new HTX10s.

That is just enough details (and no pictures) so folks can use their imaginations and do something comparable or even better. I have no plans to add a stepping motor to make the hor-to-ver-to-hor adjustment remote or automatic.

Just thought I'd pass along one more way to make the antenna even more versatile.

-73-

LB, W4RNL

| | | | |
|----------------------|-----------|-----------|--|
| L. B. Cebik, W4RNL | /\ /\ * | / / / | Tel: (423) 938-6335 |
| 1434 High Mesa Drive | / \ / \ | ----/\--- | |
| Knoxville, Tennessee | /\ \ \ \ | / / / | http://www.cebik.com |
| 37938-4443 USA | / \ \ \ \ | | e-mail: cebik@utk.edu |

Date: Fri, 26 Nov 1999 14:25:08 -0800
 From: "muleskiner" <muleskiner@gateway.net>
 To: <ka7you@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
 Subject: [56833] Re: Crystal question
 Message-ID: <001101bf385d\$193ff880\$60320f3f@oemcomputer>
 MIME-Version: 1.0
 Content-Type: text/plain;
 charset="iso-8859-1"
 Content-Transfer-Encoding: 7bit

Rod,

Briefly stated, quartz is a mineral composed of silicon dioxide with silicon atoms having positive charges and oxygen atoms having negative charges. Molecules are randomly arranged in ordinary quartz so that it shows no piezoelectric properties. An applied physical pressure randomly moves the molecules, but no net change in electrical charge is observable between opposites sides of the quartz under test. In crystalline quartz, however, molecules and atoms are arranged in exact symmetry. When an applied physical pressure causes deformation along a mechanical axis, an electric charge is observed between the faces lying along an electrical axis. Conversely, if a voltage is applied to these faces, physical deformation occurs along the mechanical axis. This is "piezoelectric effect," and many discussions about it are found in amateur radio literature.

Quartz plates vibrate in synchronism with the frequency of an applied voltage. Moreover, they vibrate at an increased amplitude when the applied frequency corresponds to the natural mechanical resonant frequency of the plate. Properly designed crystal-controlled oscillators oscillate only at the mechanically resonate frequency or its multiples called overtones.

The physical properties of a quartz crystal vary in different directions through its structure. The natural resonant frequency of a piece of crystal depends on its dimensions as well as on how it is cut with respect to the different faces. The way in which the resonant frequency varies with temperature also depends on the cut. Performance characteristics, on the other hand, depend on the particular mode of vibration. There are four basic mechanical vibration modes: the flexure, longitudinal, thickness-shear, and torsional modes. Crystals operating in the thickness-shear mode can be made to operate on odd overtones. Such operation is referred to as "third-mode" or "fifth-mode" operation. Seventh and higher overtone operation is possible, but seldom used.

Crystal cuts for vibrations types mentioned above are defined as "rotated X-cut" and "rotated Y-cut" crystals. The most widely used cut is the AT. It has a frequency factor (frequency in megahertz times thickness in thousandths of an inch) of 66.4, making it nearly the thinnest band for its frequency of any cut. AT-cut crystals can operate at their fundamental frequency or on odd mechanical overtones, notably the third and fifth. Overtone crystals find application above 20 MHz. As a general rule, third-overtone crystals are used at 20 to 60 Mhz and the fifth overtone from 60 to 125 MHz.

Finally, overtone crystals have higher Q's, better aging, and are

electrically stiffer than fundamental crystals of the same frequency. A tuned circuit is necessary in the oscillator to ensure operation on the proper overtone. Overtone crystals are frequently operated at series resonance as opposed to the anti-resonant or parallel mode. The overtone responses of a crystal should not be confused with harmonics of the fundamental frequency. They are two different phenomena. Although they are close, the overtone responses of a crystal are not exact multiples of the fundamental frequency.

I hope this answer is useful for you in how best to use the FT-243 unit marked 21.115.

With kindest regards,

John Freiburger III - WA2NZO

----- Original Message -----

From: Rod J Johnson <ka7you@juno.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Thursday, November 25, 1999 10:42 AM

Subject: HB: Crystal question

> First, Happy Thanksgiving to all!
> While going through some old crystals, I can across an FT-243 which
> was marked 21.115.
> I put it in my G3RJV crystal tester, and heard the signal on 21.115
> and also on ~7.038. Is this crystal likely designed as a third overtone?
> Will it work fine as a 40M crystal, or am I likely to damage it somehow
> by using it on 40M? I've had this since the '60's, and it was my only
> 15M crystal in my HeathkitDX-35. I have not tried it in my HW-16 yet.
> Thanks,
> Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.
> 80M thru 10M with K2 s/n268 and other fine QRP rigs.
> VHF thru 1296 MHz-higher bands pending
> ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 and others
>
> -----
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>

Date: Fri, 26 Nov 1999 13:38:44 -0600
From: "Terry Bassett" <mutabut@net66.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [56834] FOX N/T+ KB9TIQ
Message-ID: <000701bf3845\$da7283a0\$365e8bce@host.net66.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All,

Some have said that my prior post made bo sense. So, let me try again.

Tony Borries, KB9TIQ, a Tech+, will be on the 40 meter N/T+ band (saturday night local time), 0000 utc Sunday, He will be either around 7106-7107 or 7142-7143 Mhz. He lives on a farm about 20 miles due South of Champaign-Urbana Illinois. He has my TenTec 21, a Dipole, WM-2, Poor man's Paddle's and an Atomic Keyer. Please, if you have your rig on Saturday night, give Tony a listen and see if you can work him.

72,

Terry, KA9TXE East Central Illinois.

Date: Fri, 26 Nov 1999 14:36:40 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [56835] N/T+ FOX Hunter coming :-)
Message-ID: <199911261439_MC2-8EB3-D368@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
 charset=us-ascii
Content-Disposition: inline

Gang:

One of our N/T+ FOXes is coming out of his den for the first time this Sunday evening. If you are having FOX hunt withdrawal waiting for Monday....this is your chance for a cure :-).

The FOX is Tony Bassett KB9TIQ. Here's hoping all of us will take time to work this young operator. Thanks for your support.

72,

--Doc Lindsey/K0EVZ

DSBF

PO BOX 6028

Bismarck, ND 58506

K0EVZ@arrl.net

>>Tony will be trying his hand at a first outing Saturday Night, 0000 Sunday UTC. Please take time out to give him a listen and work him if you can...

72,

Terry KA9TXE East Central Illinois<<

Date: Fri, 26 Nov 1999 15:01:06 -0500

From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [56836] Re: Reply to Kit to build

Message-ID: <085d01bf3849\$4c1b7860\$0100a8c0@ix.netcom.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I very heartily second what Richard said. The DSW 40 was fun to build and David Benson (he makes the kits) was a great help. I'm looking forward to more of his kits. Who (besides my wife) says I can't have one of each? (hi-hi)

Michael

----- Original Message -----

From: Richard Matthews <prm@hiwaay.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Friday, November 26, 1999 1:36 PM

Subject: Reply to Kit to build

> Subject: What kit to build???

>
>
> > My question: what would be the best kit to build for someone who has
only
> a
> > little kit building experience? I am considering the dsw-20 or 40 from
> Small
> > Wonder Labs. Is this a good choice? Are there others I should consider?
> The
> > review of the DSW in CQ for Dec. makes it sound like a fairly??? simple
> rig
> > to build. I would appreciate some input.
>
>
> Mike, you cannot go wrong with the DSW's. I just got back into ham radio
and
> just built the DSW-40 about two months ago and today I am building the
> DSW-30. I had not touched a soldering pencil in years, don't have any
> specialized kit building equipment, and my eye sight is not so good
anymore,
> but I built the small wonder labs kit with no problem at all and am fully
> satisfied with it's quality and performance. The second kit is even easier
> after the practice I received building the first one Another plus, if you
> goof the rig building completely Small Wonder Labs will get it working for
a
> small fee.
>
> I have had nothing but great experience with this company and their
products
>
> Richard, WA4NWW (Listen for me on 30 meters before long)
>
>
>
>

Date: Fri, 26 Nov 1999 15:58:04 EST
From: W1XV@cs.com
To: qrp-1@lehigh.edu
Subject: [56837] mW DXCC award
Message-ID: <0.4b56e3bd.25704e5c@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi Jim:

Just checked the QRP ARCI web site. Couldn't find anything concerning mW DXCC. You indicated some time ago that a mW WAS award is also in the works....nothing on that either. Will this info be mentioned in the January Quarterly? Looks as though I should have exchanged QSL cards much more vigorously....72 worked and only 35 or so confirmed. I'll have to really "attack" the CQ CW test this weekend! 72 Brad QRP ARCI #4505

Date: Fri, 26 Nov 1999 13:24:59 -0800 (PST)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [56838] CQ WW DX CW contest + Fun!
Message-ID: <19991126212459.22547.rocketmail@web702.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The CQ World Wide CW contest is one of the best times of the year to catch DX with QRP/QRPP.

A good place to look over the rules is the SM3CER Contest Page on the WWW.
<http://www.sk3bg.se/contest/cqwwdxc.htm>

There is very good info on all the contests, QRO, and some of the QRP contests too.

The contest exchange is RST, and your CQ Zone. If you are not sure of your "CQ Zone", there is a map at this web address.
<http://cqwww.com/>

If interested in further reading on chasing DX with mW go to my webpage and click on, "Milliwatt QRPP (How & Why)".

Have fun in the contest, be ye QRO, QRP or QRPP !

72/71's de Jim KJ5TF

=====
Ham radio/alt energy - <http://www.qsl.net/kj5tf/>
Milliwatt Editor ARCI QRP Quarterly
AR QRP#2 - Kingston, Arkansas - 35.94N 93.47W

Do You Yahoo!?

Thousands of Stores. Millions of Products. All in one place.
Yahoo! Shopping: <http://shopping.yahoo.com>

Date: Fri, 26 Nov 1999 13:35:21 -0000
From: "Bob White" <bobwhite@innercite.com>
To: <qrp-l@lehigh.edu>
Subject: [56839] PW-1 Portable Antenna
Message-ID: <005d01bf3813\$15fe88c0\$3d72b89e@ssd.loral.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I moved the PW-1 portable antenna off the QRPMobile for awhile and onto the bedroom balcony. In the picture the coil is set for 28715 khz

Picture available at:
<http://www.geocities.com/SiliconValley/5582>

73,
Bob W03B

Date: Fri, 26 Nov 1999 16:41:48 -0500
From: Jeff Davis <jeff@n9avg.org>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [56840] ARCI Badge
Message-ID: <19991126164148.A16979@n9avg.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Got my new QRP-ARCI badge in the mail today. It is a dandy!

I saw the blurb on the ARCI Web page about the badge, placed the order online and 5 days later here is my badge.

Perhaps computers and the Internet are NOT a passing fad after all? :-)

--
72 de Jeff, N9AVG

Date: Fri, 26 Nov 1999 16:42:48 -0500 (EST)
From: James Skalski <jskalski@localnet.com>
To: qrp-1@Lehigh.EDU
Subject: [56841] help:heath hm-9
Message-ID: <Pine.LNX.4.20.9911261632400.460-1000000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a heath qrp wattmeter that is configured to work on 2 meters.
To get it on hf requires a change is several parts.
One of the parts is the Center tapped toroid that should be 29.5uH.
Does anyone know what type ...size,material toroid is used here?

For that matter does anyone have the parts to do it? Or is anyone
interested in a hm-9 that is set for 2 meters and has a hf one to trade.
My understanding is that the meter came with all parts to put the meter on
either hf,6m or 2m.

73,

Jim n2go

Date: Fri, 26 Nov 1999 13:48:02 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [56842] FS: QRP++
Message-ID: <01bf3857\$ea0bdf20\$def2fc9e@ham.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Now that my K2 is in full swing, I need to find a home for my QRP++.
This was originally a QRP+, then factory upgraded to QRP++. Very hot
receiver, as the upgrade added a second IF amplifier. S/N 851.
Appearance is good, with a new cover. There is a thin scratch on the S
meter face, and on the main tuning knob. This is a proven Fox Catcher (tm),
so I hope its new owner will keep up the tradition.
Asking \$350, and estimate shipping about \$15.
73, Bob N6WG

Date: Fri, 26 Nov 1999 16:49:14 -0500
From: Jeff Davis <jeff@n9avg.org>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [56843] OT: Logging Program
Message-ID: <19991126164914.B16979@n9avg.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Folks,

I'm tired of not having a decent logging program just because I choose to run Linux. Have started work on writing my own logger for Linux. There is a feature that I plan to add, but I'm curious if this exists in any other logging program as I'd like to see how it was implemented before I build my own (trolling for ideas).

The feature will be the addition of a drop-down menu item for each record to indicate which antenna was used for the contact. The idea being that the database could then be queried, by antenna (rig, power, band, etc.), and a map view generated showing contacts made.

I think this would be a help when designing and playing with different antennas... it would be a little like sticking a push-pin into a map for each contact and then viewing the pattern on the map.

Anyone seen anything like this in an existing logging program?

Thanks,

--

72 de Jeff, N9AVG

Date: Fri, 26 Nov 1999 17:00:48 -0500
From: Jeff Davis <jeff@n9avg.org>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [56844] Luddite Night?
Message-ID: <19991126170048.C16979@n9avg.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

A few weeks ago the XYL and harmonics were gone out of town and I had the hacienda to myself. It's times like those that I usually opt to work in the attic and end up falling through the ceiling,,, but not this time (its only happened a few times, I'm not a complete idiot).

I was tuning around on my DSW-40 and noticed a buzzing sound that bothered me. I discovered one of the lamps in the house was on, it is one of those "touch" lamps that the XYL likes but it makes a ton of noise on HF. I turned it off and then got the bright idea to turn off ALL the lights.

I shut down everything; the computer, TV, and all the lights. I put the DSW and auto-tuner on a battery, lit a candle on my desk and spent the next few hours enjoying the band by candlelight!

It was so peaceful and enjoyable, that I've done the same thing several nights in a row and while I can draw no conclusions about which candle scent produces better propagation, I've decided it is at least as good as aromatherapy!

Perhaps we need a "Luddite Night" event when we operate simple, battery powered equipment by candle light? :-)

--

72 de Jeff, N9AVG

Date: Fri, 26 Nov 1999 14:30:34 -0800 (PST)
From: "Robert P. Okas" <vintage@best.com>
To: Jeff Davis <jeff@n9avg.org>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [56845] Re: Luddite Night?
Message-ID: <Pine.BSF.4.10.9911261413300.10082-1000000@shell14.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Howdy Jeff,

Maybe it's that time of the year, maybe it's your mention of falling through the ceiling and power outages, maybe it's just my free-associatin' mind; I can't help but think of ol' Clark "Sparky" Griswold! But, I like the idea of a candle-lit qso party. How about forsaking the gell cell and going with thermocouple-power? The candle works double-duty then...

73,
Bob - W3CD

On Fri, 26 Nov 1999, Jeff Davis wrote:

> A few weeks ago the XYL and harmonics were gone out of town and I had

> the hacienda to myself. It's times like those that I usually opt to work
> in the attic and end up falling through the ceiling,,, but not this
> time (its only happened a few times, I'm not a complete idiot).
>
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> noise on HF. I turned it off and then got the bright idea to turn off
> ALL the lights.
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> DSW and auto-tuner on a battery, lit a candle on my desk and spent the
> next few hours enjoying the band by candlelight!
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> nights in a row and while I can draw no conclusions about which candle
> scent produces better propagation, I've decided it is at least as good
> as aromatherapy!
>
> Perhaps we need a "Luddite Night" event when we operate simple, battery
> powered equipment by candle light? :-)
>
> --
> 72 de Jeff, N9AVG
>
>

Date: Fri, 26 Nov 1999 17:32:21 -0500
From: "J. Ervin Bates" <w8erv@email.msn.com>
To: <jeff@n9avg.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [56846] Re: ARCI Badge
Message-ID: <004f01bf385e\$1bd09900\$942a113f@win98>

Not sure if I recall the blurb....can someone pse repost the information so
I can get mine ordered? Many thanks in advance.

72/73,
Erv W8ERV

Date: Fri, 26 Nov 1999 18:25:09 -0500

From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [56847] Re: HB: Screwdriver substitute
Message-ID: <3.0.32.19991126182505.007097dc@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>BenNW7DX@aol.com wrote:

>>

>> Hey Guys,

>> I was wondering if anybody knows of any substitutes for metal

>> screwdrivers.

Ben and Gang.

I have several made from broken solid fiberglass fishing rods. The rods unfortunately were not broken by fish.

73 Pete NV4V

End of QRP-L Digest 1651

